

US National Phase of
PCT/ES2003/000598
Docket No: 0064-P04078US00

TRANSLATION

CLAIMS

1. External wrist fixator which, while being especially conceived to act as a bridging element between the forearm and the hand that immobilises the wrist in any selected position, is characterised in that it is formed by a main articulator (1), where to a pair of bars (13) are fixated by one end of both bars (13), which are capable of being regulated both longitudinally and angularly, each of both bars (13) being connected, on the other end, to a support (15) capable of being longitudinally and angularly regulated, and each of said supports (15) being provided with a pair of holes (22) for passage of the corresponding nails (23) intended for insertion into the bone; and in that the main articulator (1) is embodied in an extended body provided with a pair of identical pitches (2), whose internal surface is concave, creating cylindrical segments, connected to one another by means of an axial slot (4) which may be narrowed by tightening a transverse screw (8) in order to reduce the corresponding pitches (2), where respective spherical bearings (10) are housed with a diametral pitch (11) that is connected, through a slot (12), with the exterior in order to allow for passage and tightening of the corresponding bar (13), with the latter, in turn, passing through the pitch or hole which the head of a spherical screw (14) has for this purpose, and through which it is linked to the respective support (15).
2. External wrist fixator, as claimed in the preceding claim, characterised in that the spherical bearings (10) are located on the pitches (2) with the capacity to rotate around themselves, allowing for the bars' (13) position to be changed in any direction.
3. External wrist fixator, as claimed in claim 1, characterised in that the supports' (15) holes (22) are connected to the exterior by means of respective lateral slots (24) which, by allowing a slight lateral oversizing of said holes (22) with respect to the nails (23) intended for insertion into the bone, are pinched over said nails when they are definitively fixated to the ends of the corresponding bars (13).
4. External wrist fixator, as claimed in the preceding claims, characterised in that the supports' (15) slots (24) open towards a concave curved face (25) on which a bearing (16)

traversed by the spherical annular head screw's (14) threaded shank (18) is adapted; these screws (14) are complemented by respective nuts (21).